

ARGYRANTHEMUM FRUTESCENS PLANT NAMED ('S&G 30032')

Latin name of the genus and species of the plant claimed

5 *Argyranthemum frutescens*

Varietal Denomination

'Argyranthemum' (S&G 30032)

10 **Background of the invention**

The present invention relates to a new and distinct cultivar of Marguerite Daisy plant, botanically known as *Argyranthemum frutescens* and referred to by the cultivar name 'SG 30032'. The new cultivar is a product of a planned breeding program conducted by the inventor in Enkhuizen, The Netherlands. The objective of the breeding program was to develop a more vigorous plant that flowers early with a good field performance during the whole summer.

Description of the drawing

20 This new Marguerite Daisy plant is illustrated by the accompanying photographic drawing which shows blooms, buds and foliage of the plant in full color, the color shown being as true as can be reasonably obtained by conventional photographic procedures.

Description of the new cultivar

25 The following detailed descriptions set forth the distinctive characteristics of this new Marguerite Daisy plant. The data which defines these characteristics were collected from asexual reproductions carried out in Enkhuizen, The Netherlands. The plant history was taken on 20 weeks old plants, grown in the greenhouses in Enkhuizen, The Netherlands with day temperatures ranging from 12 to 18 degree C, and night temperatures ranging from 10 to 14 degrees Celsius.

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Color references are primarily to the RHS Color Chart of the Royal Horticultural Society of London where general terms of ordinary dictionary significance are used.

The Plant

- 5 Classification - Botanical : *Argyranthemum frutescens* cv. 'SG 30032'

Parentage

- Female parent : proprietary seedling selection of *Argyranthemum frutescens*, identified as number A 40-6. Breederscode of
10 the new plant is C 45-6.
- Male parent : unidentified selection of *Argyranthemum frutescens*

Propagation

- Type cuttings : Terminal cuttings
- 15 Time to initiate roots : 7 to 10 days at air temperature of 21 degree C.
- Time to develop roots : 7 to 14 days at air temperature of 18 degree C.

Plant Description

- Growth habit : upright
- 20 Plant height : 25-28 cm
- Vigor : Vigorous
- Spreading area of plant : 25-30 cm
- Strength : Very good
- Branching Character : Freely branching, plants do not require pinching
- 25 Crop time : About 10 weeks are required to produce a finished
flowering plant in a 10,5 cm container from a good
developed cutting

The Stem

- 30 Diameter : 4 mm

	Shape	:	round, bit grooved
	Anthocyan pigmentation	:	absent
	Length of internode	:	1,5-2,5 cm
	Pubescence	:	absent
5	Color	:	143C

The Foliage

	Arrangement	:	alternate
	Shape of leaf	:	bipinnatisect
10	Leaf apex	:	acute
	Leaf base	:	attenuate
	Texture	:	thick glabrous smooth
	Length	:	6 – 7 cm
	Width	:	3 – 3,5 cm
15	Depth of incision	:	lancinate
	Color - Upper side	:	133A-139A
	- Lower side	:	138B
	Pubescens	:	absent
	Petiole	:	absent
20	Venation -shape	:	pinnate
	-color	:	138A

The Flower Bud

	Peduncle	Length	:	6 -10 cm
25		Strength	:	strong
		Texture:	:	smooth
		Color	:	144A
	Size bud - Diameter	:		4-7 mm
	- Length	:		4-5 mm
30	Shape flower bud	:		flattened, round

Color bud : 163C

Inflorescence

Diameter : 4,2 –5,0 cm

5 Form : Capitula with 2 series of ray florets and 10-15 series of grown disc florets, which give the semi double impression.

Receptacle height : 0,5 cm

Involucre/phyllaries : 3 series of 5 bracts, tightly to receptacle

Shape : elliptic, with broad apex

10 Margin : entire

Length : 2-3 mm

Color : upper: 143A
Lower: 143A

Fragrance : absent

15 Quantity of inflorescences : ±60-100 flowers/plant depending on age and growing conditions.

Flowering period : April till October in N-W Europe, plants flower continuously during this period.

20 **Ray Florets**

Shape of ray florets : ligulate

Apex : rounded, little incised

Base : cordate

Margin : entire

25 Color : 155C

No. of ray florets per inflor. : 22-26

Size of the ray floret - Length : 1,4 – 1,7 cm

- Width : 0,4 – 0,7 cm

Texture : smooth

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Disc Florets

	Shape of disc florets	: tubular (trumpet shape) with 5 lobes
	Color	: 12A
5	Diameter of disc floret – young	: 1 mm
	-old	: 3 mm
	Number of disc florets/flower	: ±80

Androecium

10	Anther color	: yellow 15A
	Pollen color	: yellow 15A
	Amount of pollen	: only in disc florets little pollen

Gynoecium

15	<u>Gynoecium:</u>	
	Pistil number	: one per floret (ray florets only)
	Pistil length	: about 2mm
	Style color	: yellow green 144D
	Style length	: about 2mm
20	Stigma color	: yellow orange 14A
	Stigma shape	: bilobed
	Ovary color	: 144C

Disease resistance

25		: No susceptibility nor resistance to fungal, bacterial or viral pathogens has been noted. Material is free of virus and Chrysanthemum stunt viroid (CSVd).
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Seed

		: seed production is not observed
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Physiological and ecological characteristics:

Comparison with Sugar Buttons and SG30032 on characteristics in which the new plant differs:

	Sugar Buttons	SG30032
5 Plant height	19-22 cm	25-28 cm
Plant habit	compact	upright
Flower diameter	3,0-3,5	4,2 – 5,0 cm
Foliage color	137 A - 137B	133A - 139A

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